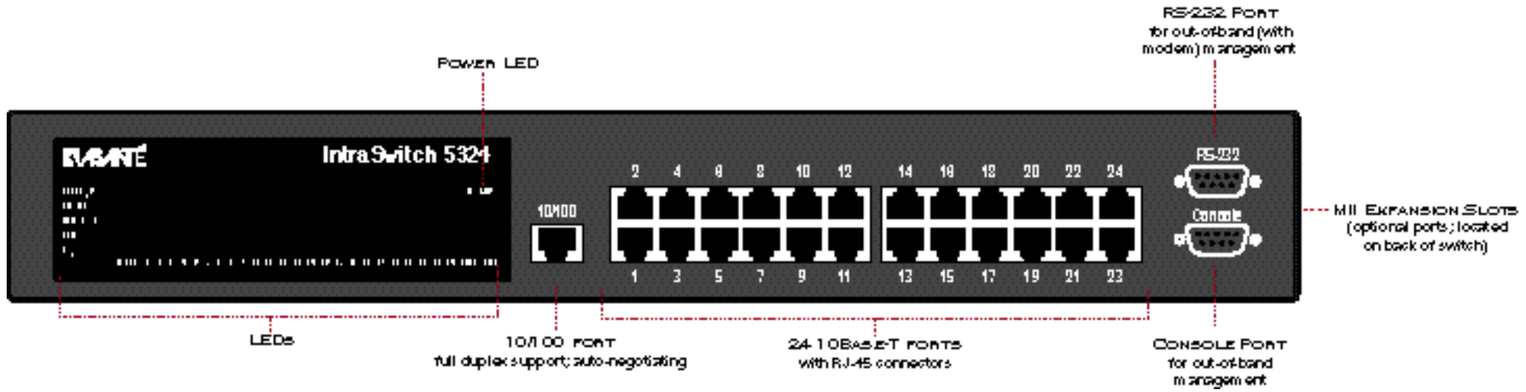
IntraSwitch 5324



Overview

This guide provides instructions for installing, configuring, and monitoring your IntraSwitch 5324.

For more information on the IntraSwitch, including using the various management options available, refer to the IntraSwitch 5324 User's Manual included in your package.

Package Contents

The IntraSwitch 5324 is shipped with the following items:

(1) IntraSwitch 5324 Ethernet switch
(2) Rack-mounting brackets
(12) Standard Phillips screws for attaching rack-mounting brackets
(4) Rubber pads for desktop placement
(1) Power cord
(1) System software diskette
(1) CD containing IntraSpection™ Web-based network management software
(1) User's Manual
(1) Quick Installation Guide (this card)

Additional materials required:

- Refer to Step #2 ("Connect to the Network") to determine the cables you need for connecting the IntraSwitch to the network.
- Phillips screwdriver (#2) for rack-mounting the switch.

Quick Installation Guide

1 Plug In and Check Power Connection

1. Place the IntraSwitch on a flat surface or in an equipment rack.

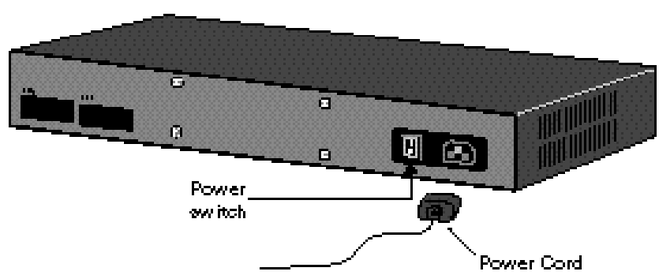
   ▲ **Important:** See "Rack Mounting/Desktop Placement" on the reverse side of this card for information on securing the switch in an equipment rack or preparing it for desktop placement.

2. Plug one end of the supplied power cord into the connector on the left side of the unit's rear panel.
3. Plug the other end into a grounded AC outlet.
4. Turn on the power switch (located on the left side of the unit's rear panel).

   Make sure the front-panel LEDs blink once and the power light is on.

5. Power off the IntraSwitch.

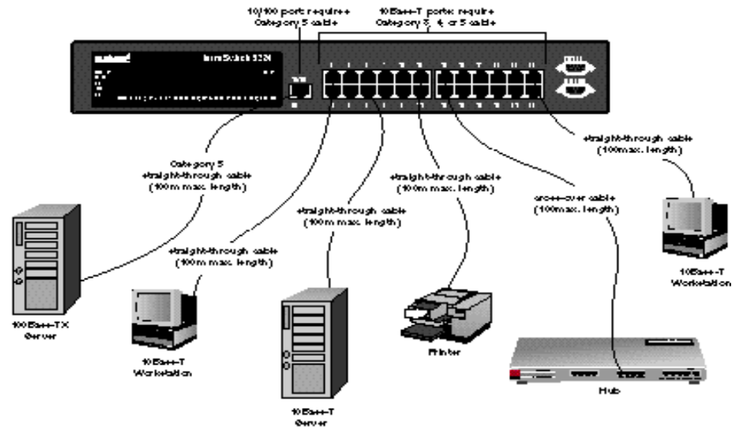
   After the power connection is checked, the switch is ready to be connected to the network. Proceed to Step 2, "Connect to the Network."



2 Connect to the Network

1. Make sure the IntraSwitch is NOT powered on.
2. Connect network devices to the switch, following the cable guidelines below.
3. Power on the IntraSwitch.

   After the switch is connected to the network, it can be configured for management capabilities. If you want to use the IntraSwitch as a managed switch, proceed to Step 3 "Configure for Management."


10/100 ports require Category 5 cable
10Base-T ports require Category 3, 4, or 5 cable
IntraSwitch 5324
straight-through cable (100m max. length)
Category 5 straight-through cable (100m max. length)
straight-through cable (100m max. length)
straight-through cable (100m max. length)
straight-through cable (100m max. length)
cross-over cable (100m max. length)
straight-through cable (100m max. length)
10Base-TX Server
10Base-T Workstation
10Base-T Server
Printer
Hub
10Base-T Workstation

10Base-T Ports and 10/100 Port cabling procedures

The 24 10Base-T ports and single 10/100 port each have an MDI (Media Dependent Interface, the IEEE 10Base-T standard for Unshielded Twisted-Pair cable) interface.

To connect to a network station:

- Use a Category 3, 4 or 5 UTP **straight-through cable** (100 meters max.) with RJ-45 connectors. (Use a Category 5 cable with the 10/100 port.)

To connect to a repeater/hub:

- Use a Category 5 UTP **cross-over cable** (100 meters max.) with RJ-45 connectors.

To connect one to a repeater/hub's **uplink** port**:**

- Use a Category 3, 4 or 5 UTP **straight-through cable** (100 meters max.) with RJ-45 connectors. (Use a Category 5 cable with the 10/100 port.)

MII ports Cabling Procedures

The optional MII expansion slots have an MDI-X (Media Dependent Interface, where "X" stands for cross-over) interface. These slots allow for the connection of 10/100TX, 100Base-FX, or 10Base-FL (fiber) ports.

To connect a 10/100TX module to a network station:

- Use a Category 5 UTP **cross-over** cable with RJ-45 connectors.

To connect a 10/100TX module to a repeater/hub:

- Use a Category 5 UTP **straight-through** cable with RJ-45 connectors.

To connect a 10/100TX module to a repeater/hub's uplink port:

- Use a Category 5 UTP **cross-over** cable with RJ-45 connectors.

To connect a 100Base-FX module to a repeater/hub or to a network station:

- Use a dual 62.5/125 micron graded–index multimode fiber-optic cable fitted with a dual **SC** connector.

To connect a 10Base-FL module to a repeater/hub or to a network station:

- Use a dual 62.5/125 micron graded–index multimode fiber-optic cable fitted with a dual **ST** connector.

3 Configure for Management

s Skip this step if you plan to use the IntraSwitch as an **unmanaged** switch.

To use the IntraSwitch 5324 as a managed switch, it must be configured with an IP address. This can be accomplished in one of two ways:

- automatically using BootP (default)
- manually via the Console port

BootP Configuration

The IntraSwitch 5324 is shipped with BootP support. BootP allows the switch to be automatically configured with an IP address when the switch is connected to the network and is powered on, if your network contains a BootP server configured with available, valid IP addresses.

1. Make sure your network has a BootP server configured with a valid IP address entry for the IntraSwitch 5324.
2. When the IntraSwitch is connected to the network and is powered on, it automatically transmits a BootP request across the network (up to 10 times) until it receives a valid IP address from the BootP server.
3. After an IP address is received, the switch can be managed via in-band access. Refer to Chapter 4 of the User's Manual for more information.

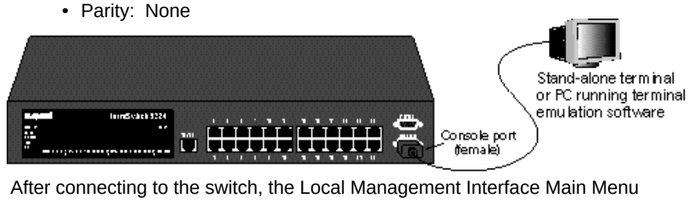
   If an IP address is NOT received, the switch will need to be manually configured with an IP address via the Console port. See "Console Configuration" below.

Console Configuration

1. Using a straight-through RS-232 cable with a 9-pin male D-subminiature plug at one end, connect a stand-alone terminal or a PC with a terminal emulator to the Console port on the IntraSwitch.
2. Make sure both units are powered on.

   If using a PC with a terminal emulator, make sure it is configured with the following terminal settings:

   - Bits Per Second: 9600
   - Data Bits: 8
   - Parity: None
   - Stop Bits: 1
   - Flow Control Hardware: None



3. After connecting to the switch, the Local Management Interface Main Menu appears on the screen.
4. Type **c** to open the Configuration Menu.
   The "Enter Password" prompt appears.
5. Type **Asante** at the "Enter Password" prompt.
   The password is case sensitive.
6. Press return.
   The Configuration Menu appears.
7. Type **i** to open the TCP/IP Parameter Menu.
   The TCP/IP Parameter Menu appears.
8. Type **i** to select the option "Set IP Address."
9. Type a valid IP address for the IntraSwitch at the prompt, then press return.

s Depending on your network configuration, you may also need to set subnet mask and default router information for the IntraSwitch. See “Configure TCP/IP Parameters” in Chapter 4 of the User's Manual for details.

10. Type **q** to return to the Configuration Menu.

Rack Mounting/Desktop Placement

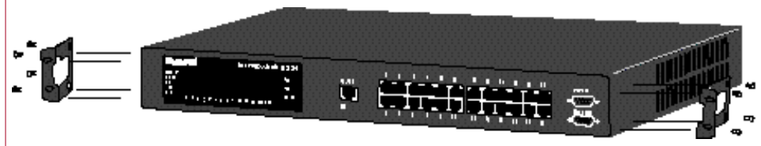
The IntraSwitch can be installed in a standard 19-inch EIA RS-310C equipment rack. The switch can also be placed on a horizontal surface with support capabilities of 11 pounds (5 kilograms).

Equipment Rack Installation

To install the IntraSwitch in an equipment rack:

1. Mount one rack bracket (supplied) on each side of the switch’s chassis with the screws provided.
2. Place the IntraSwitch in the equipment rack.
3. Use the four remaining screws to secure the switch by its mounting brackets to the equipment rack.

▲ **Important:** Make sure the switch is supported until all four remaining screws for each bracket are installed. Failure to do so could cause the switch to fall, resulting in personal injury or damage to the unit, or both.



Desktop Placement

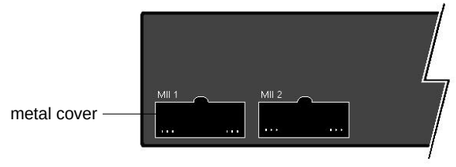
The IntraSwitch has four rubber self-adhesive feet that can be applied to the bottom of the chassis to enable desktop/free-standing installation of the unit.

1. Turn the switch over so that the bottom of the chassis faces up.
2. Peel the protective backing off of each rubber foot.
3. Position each rubber foot over the recessed areas near the four corners of the switch.
4. Press each rubber foot into place.
5. Place the switch on a horizontal surface with a minimum area of 17.1" x 14.5".

MII Expansion Slots

The IntraSwitch has two optional Media Independent Interface (MII) expansion slots on the switch's back panel which allow for the addition of various types of media access modules, including 10/100 TX, 100Base-FX, and 10Base-FL.

The MII modules are sold separately and comply with IEEE 802.3 and 802.3u (10/100Base-T and 100Base-FX) specifications.



To install an MII module:

1. Unscrew the metal cover from the front of an MII expansion slot on the IntraSwitch.
2. Align the bottom of an MII module with the rails on the inside of the expansion slot.
3. Slide the MII module into the expansion slot until it stops, then push the module in until it seats with the connector.
4. Screw the module into place using the screw that came with your MII module (this secures the module's connection).

After the MII module is installed, connect the port to a network device.

LEDs

LED	Color	Meaning
Power	green	The IntraSwitch is receiving electrical power.
100Mbps	green	10/100 port or an installed MII expansion port is operating at 100Mbps speed. ***Note:*** These LEDs only function with ports capable of operating at 100Mbps speed (i.e., the 10/100 port or an installed MII module).
Max Util	amber	The corresponding port's receive buffer is full (maximum utilization).
FDP/Col	amber	Indicates full duplex mode on the 10/100 port or on an installed MII expansion port. Indicates a collision at the switching port for those ports operating in half-duplex mode.
Data	green	Traffic activity is occurring on a port (transmit [TX] or receive [RX]).
Link	green	A node or other network device is properly connected to the corresponding port.

Technical Specifications

Network Management	SNMP-compatible management software, HTTP management software, Telnet software
Connectors	RS-232 (DB-9, female), RJ-45 (10Base-T and 10/100Base-TX), MII (Media Independent Interface)
Spanning Tree Support	IEEE 802.1d
MAC Address Table Size	1024
Dimensions	Width: 17.1 inches (434.3 mm) Height: 2.25 inches (57.2 mm) Depth: 14.5 inches (368.3 mm)
Weight	11 pounds (5 kilograms)
Power Specifications	
Voltage Range:	100 to 250 VAC
Frequency Range:	50/60/440 Hz
Maximum current range:	1.6A
Environmental Specifications	
Temperature	Operating: 0° to 45° C
Relative Humidity	Operating: 5% to 85% (non-condensing)
Standards Compliance	MIB II, RMON (4 groups: 1,2,3,9), BootP, DHCP, IEEE 802.3, IEEE 802.3u, IEEE 802.1d
Safety	UL, CSA, VDE, TUV
Emissions	FCC Class A, EN55022, CE

Asking for Assistance

Telephone ..... (800) 622-7464
Fax ..... (408) 432-6018
Fax-Back ..... (800) 741-8607
Bulletin Board Service (BBS) .. (408) 432-1416
ARA BBS (guest login) ..... (408) 432-1416

AppleLink mail/BBS ..... ASANTE
FTP Archive ..... ftp.asante.com
Internet mail .....support@asante.com
World Wide Web Site http://www.asante.com

Technical Support Hours: 6:00 a.m. to 5:00 p.m. Pacific Standard Time, Monday-Friday

For troubleshooting tips, refer to Appendix A in the IntraSwitch 5324 User’s Manual .

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